

- LEGEND**
- Background Area Sample Location
 - DU-2 Deeper Soil Sample Location
 - Approximate Delineation Soil Sample Location
 - Sampling Location
 - Decision Unit
 - Treatment Tank
 - Background Area
 - South Pond
 - Preliminary Site
 - Parcel

DRAFT



CLIENT
HOLCIM

CONSULTANT



YYYY-MM-DD	2025-01-15
DESIGNED	TL
PREPARED	MK, MR, KS
REVIEWED	GL
APPROVED	GZ

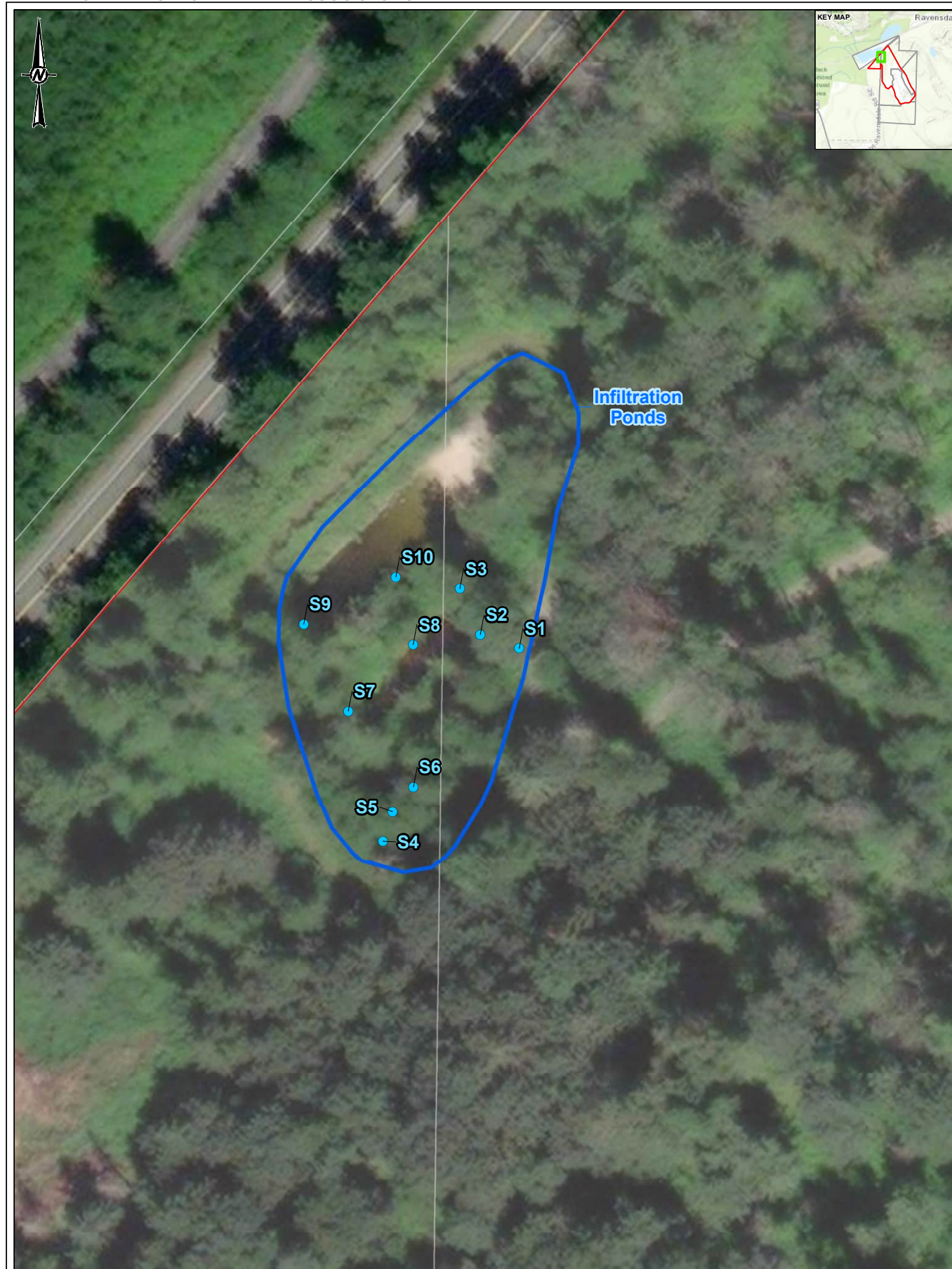
NOTE(S)
1. "PRELIMINARY SITE" REFERS TO THE REMEDIAL INVESTIGATION STUDY AREA THAT INCLUDES PARCELS 0121069011 (LOT 5), 3622069138 (LOT 6) AND 3522069046 (BAJA PROPERTY).
2. ASPECT CONSULTING (SITE BOUNDARY, PARCEL).
3. COORDINATE SYSTEM: NAD 1983 STATEPLANE WASHINGTON NORTH FIPS 4601 FT US
4. MAP SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP, GEBCO, USGS, FAO, NPS, NRCAN, GEBCO, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY

REFERENCE(S)
1. GOLDER (DECISION UNITS, SAMPLING LOCATIONS, TREATMENT TANK)
2. ASPECT CONSULTING (SITE BOUNDARY, PARCEL)
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SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY

PROJECT
REMEDIAL INVESTIGATION REPORT – RESERVE SILICA
RECLAMATION SITE

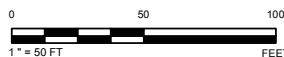
TITLE
ISM DECISION UNITS AND SAMPLING LOCATIONS

PROJECT NO.	PHASE	REV.	FIGURE
152030402	004	0	4-2



- LEGEND**
- Infiltration Ponds Sample Location
 - Infiltration Ponds
 - Preliminary Site
 - Parcel

DRAFT



NOTE(S)
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SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY

CLIENT
HOLCIM

CONSULTANT

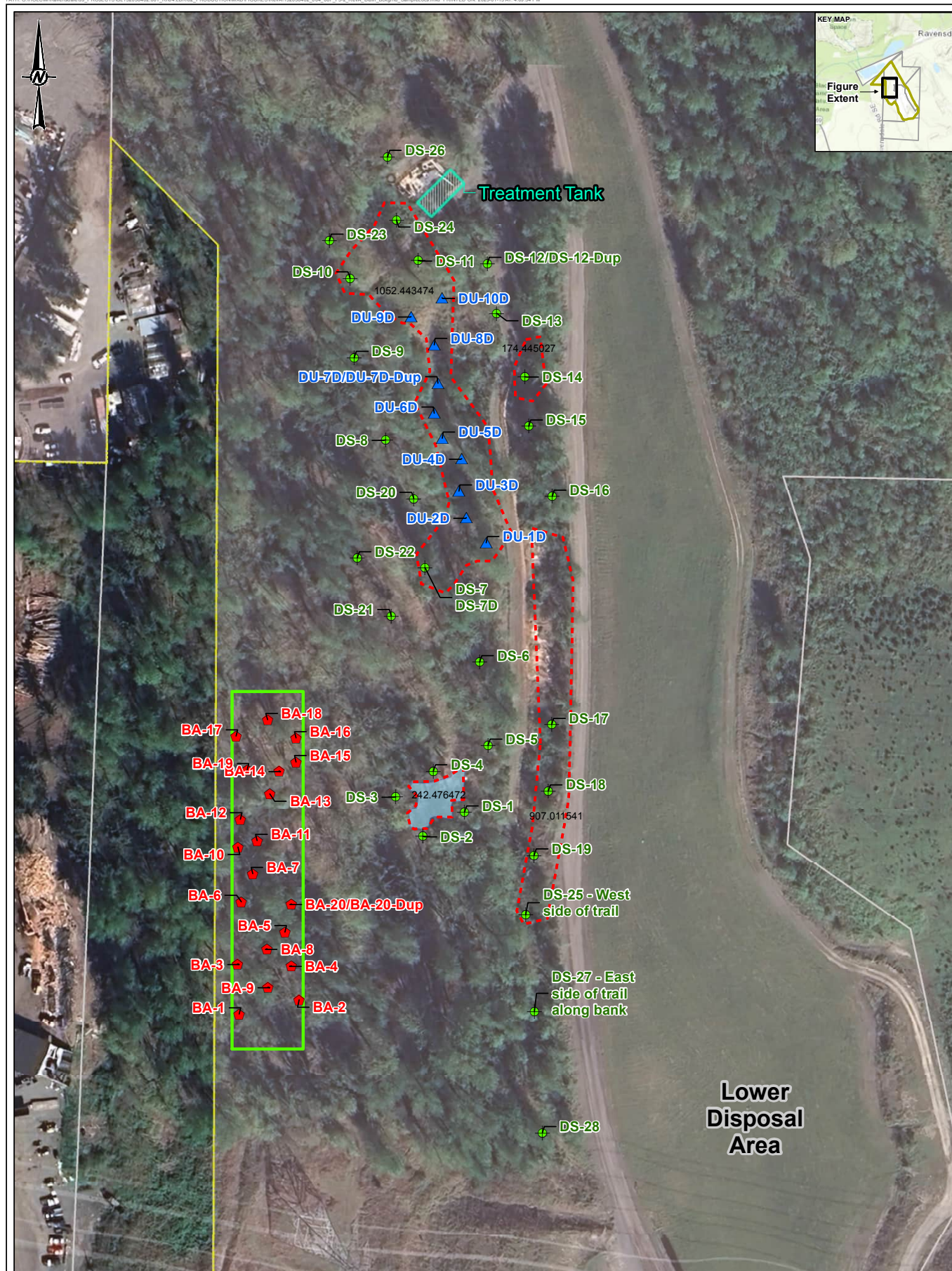
wsp

YYYY-MM-DD 2025-01-15
DESIGNED TL
PREPARED CK, KS
REVIEWED GL
APPROVED GZ

PROJECT
REMEDIAL INVESTIGATION REPORT – RESERVE SILICA RECLAMATION SITE

TITLE
INFILTRATION PONDS SEDIMENT SAMPLING LOCATIONS

PROJECT NO. PHASE REV. FIGURE
GL 152030402 04 A 4-3



LEGEND

- Background Area Sample Location
- DU-2 Deeper Soil Sample Location
- Approximate Delineation Soil Sample Location
- Background Area
- Treatment Tank
- South Pond
- Parcel
- Preliminary Site
- Soil Delineation Boundary

Approximate areas where COPC concentrations exceed at least one PCUL and background concentration.

DRAFT

0 100 200
1" = 100 FT
FEET

CLIENT HOLCIM	YYYY-MM-DD 2025-01-15
CONSULTANT wsp	DESIGNED TL
	PREPARED CK/KS
	REVIEWED GL
	APPROVED GZ

NOTE(S)
1. "PRELIMINARY SITE" REFERS TO THE REMEDIAL INVESTIGATION STUDY AREA THAT INCLUDES PARCELS 0121069011 (LOT 5), 3622069138 (LOT 6) AND 3522069046 (BAJA PROPERTY).
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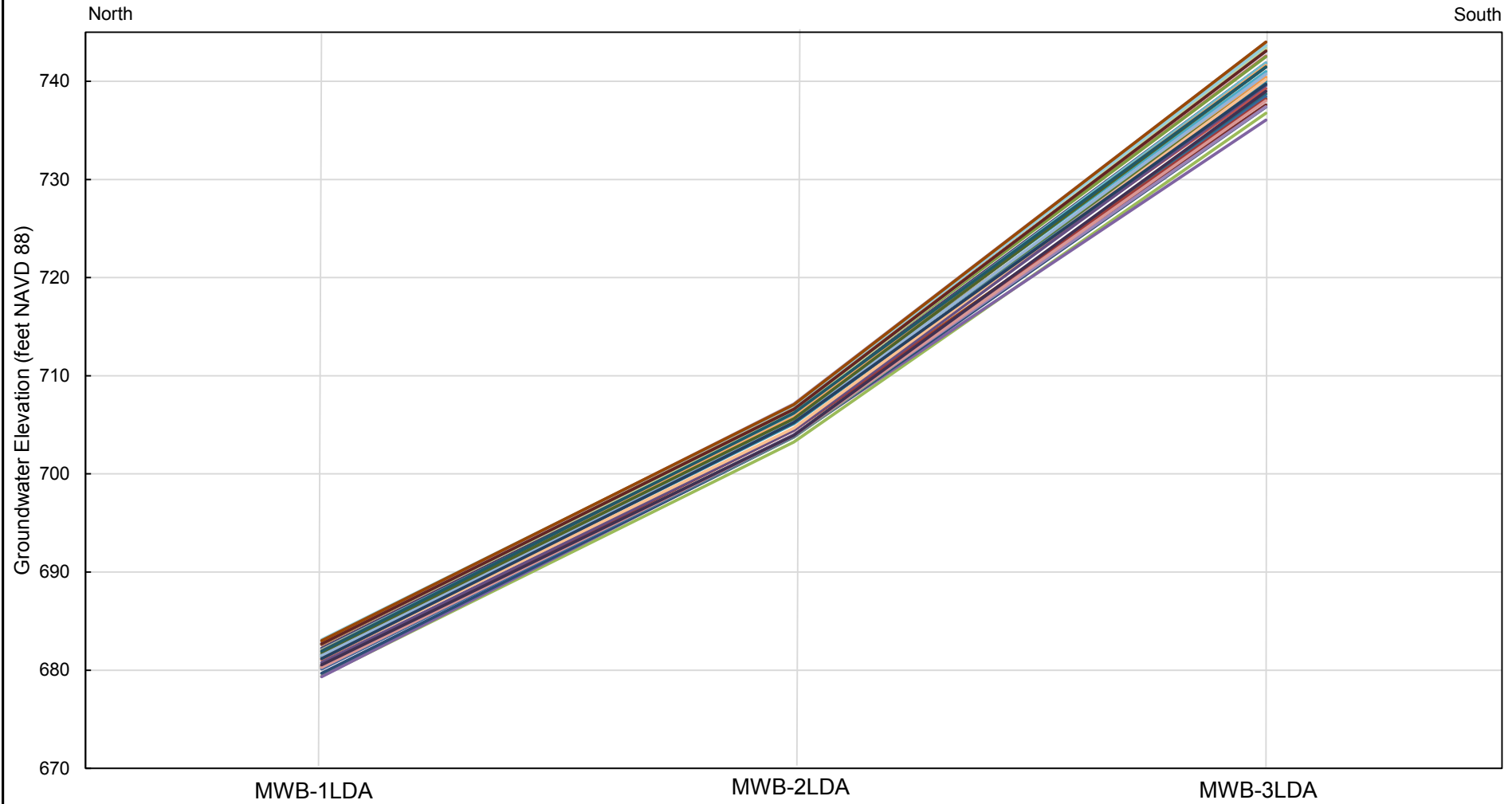
PROJECT
REMEDIAL INVESTIGATION REPORT – RESERVE SILICA RECLAMATION SITE

TITLE
DELINEATION AREAS OF SOIL EXCEEDING PRELIMINARY CLEANUP LEVELS

PROJECT NO. GL 152030402	PHASE 04	REV. A	FIGURE 5-2
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FIGURE 6-1

0 80 160
FEET



DRAFT

LEGEND

10-Feb-15	4-May-15	4-Aug-15	4-Nov-15
8-Feb-16	2-May-16	22-Aug-16	1-Nov-16
31-Jan-17	30-May-17	16-Aug-17	9-Nov-17
28-Feb-18	1-May-18	22-Aug-18	6-Nov-18
11-Mar-19	8-May-19	27-Aug-19	13-Nov-19
14-Feb-20	13-Aug-20	9-Dec-20	5-Mar-21
10-Jun-21	13-Oct-21	5-Jan-22	17-Mar-22
21-Jun-22	12-Sep-22	12-Dec-22	15-Mar-23
27-Jun-23	6-Sep-23	12-Dec-23	4-Mar-24

CLIENT
HOLCIM

CONSULTANT



PROJECT

**REMEDIAL INVESTIGATION REPORT
RESERVE SILICA RECLAMATION SITE**

TITLE

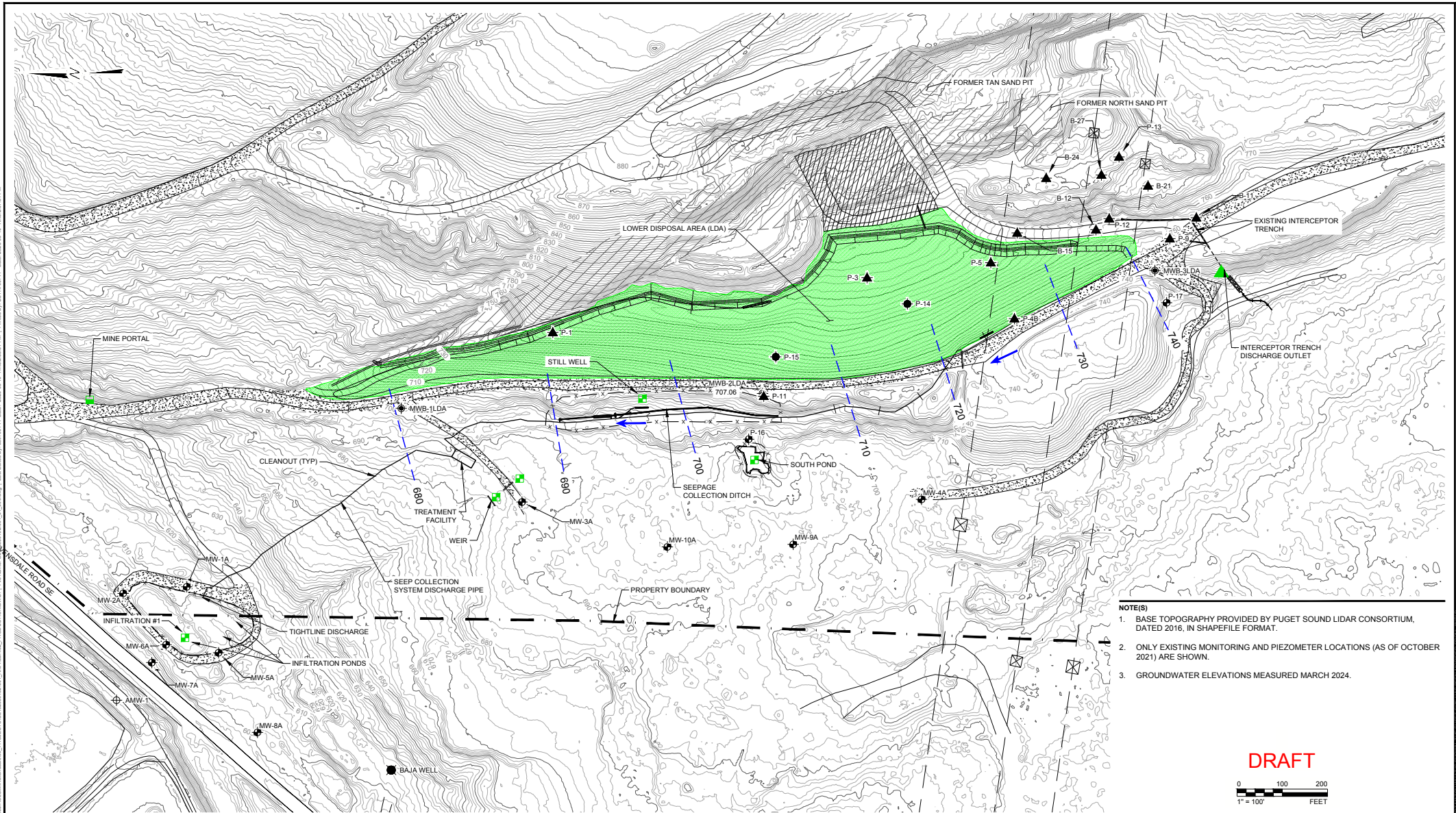
LDA HISTORICAL BEDROCK GROUNDWATER ELEVATIONS

PROJECT NO.
GL152030402.001

PHASE
04

REV.
A

FIGURE
6-2



LEGEND

	COVER AREA		PRE-RI PIEZOMETER		FENCE LINE
	ALLUVIAL/SALLOW MONITORING WELL		LDA SURFACE WATER SAMPLING LOCATION		INFERRED GROUNDWATER SURFACE
	BEDROCK MONITORING WELL		DSP BEDROCK SAMPLING LOCATION (PORTAL)		CONCEPTUAL GROUNDWATER FLOW DIRECTION
	LDA MONITORING WELL		INTERCEPTOR TRENCH SAMPLING LOCATION		ACCESS ROAD
	PLANT SITE MONITORING WELLS		BAJA WELL		LAYDOWN AREA
			PRIVATE WELL		

CLIENT
HOLCIM

CONSULTANT

YYYY-MM-DD	2025-03-10
DESIGNED	GL
PREPARED	TR
REVIEWED	GL
APPROVED	GZ

- NOTE(S)**
1. BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.
 2. ONLY EXISTING MONITORING AND PIEZOMETER LOCATIONS (AS OF OCTOBER 2021) ARE SHOWN.
 3. GROUNDWATER ELEVATIONS MEASURED MARCH 2024.

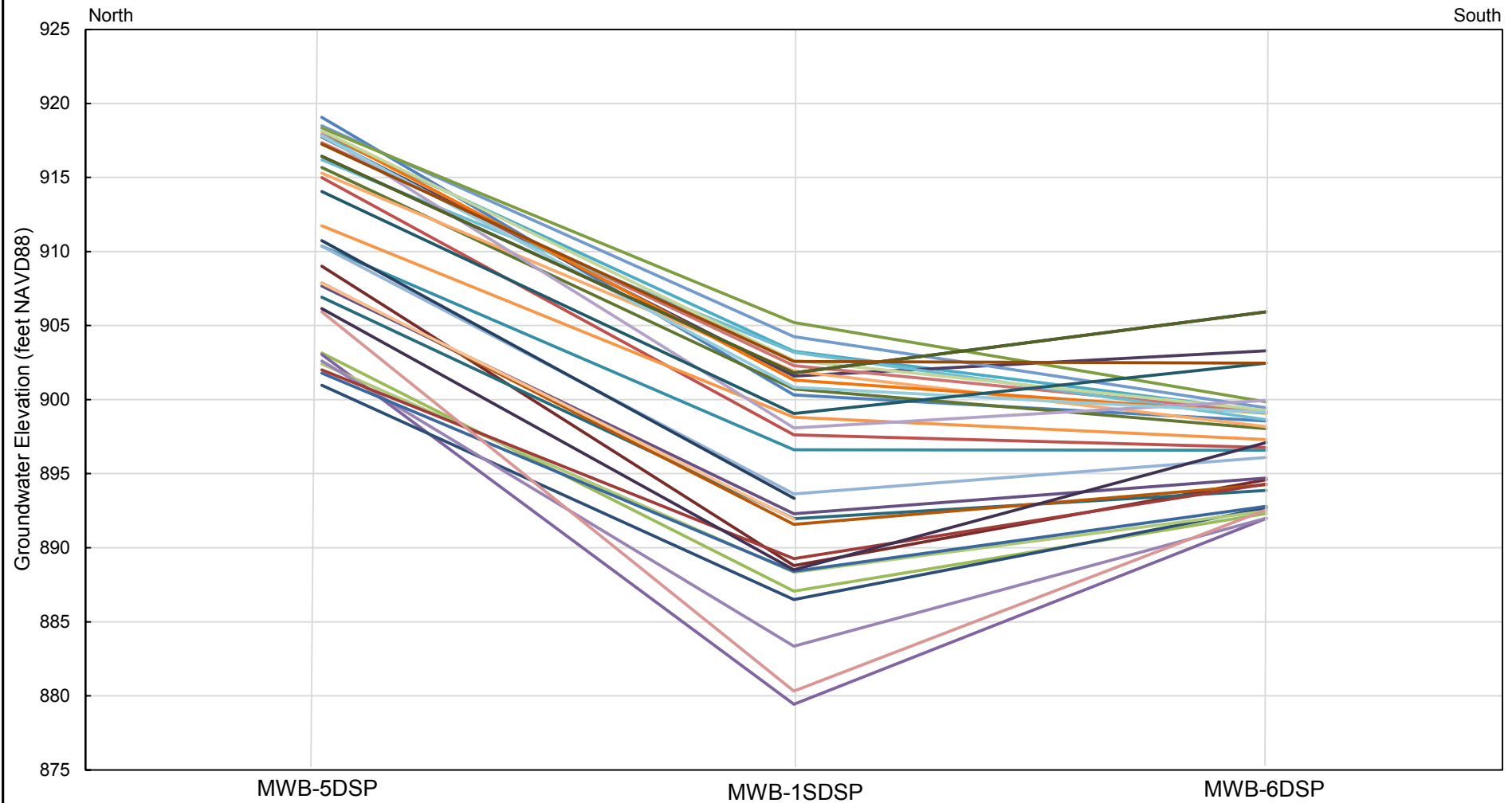
DRAFT

0 100 200
1" = 100' FEET

PROJECT
REMEDIAL INVESTIGATION REPORT
RESERVE SILICA RECLAMATION SITE

TITLE
CONCEPTUAL LDA BEDROCK GROUNDWATER ELEVATIONS

PROJECT NO.	TASK	REV.	FIGURE
GL152030402.001 04		A	6-3



Note: Groundwater elevations shown in the time series chart in wells MWB-5DSP and MWB-6DSP are corrected with a downward gradient observed in well pair MWB-1SDSP and MWB-1DDSP based upon screen elevations.

DRAFT

LEGEND

10-Feb-15	4-May-15	4-Aug-15	4-Nov-15
8-Feb-16	2-May-16	22-Aug-16	1-Nov-16
31-Jan-17	30-May-17	16-Aug-17	9-Nov-17
28-Feb-18	1-May-18	22-Aug-18	6-Nov-18
11-Mar-19	8-May-19	27-Aug-19	13-Nov-19
14-Feb-20	13-Aug-20	9-Dec-20	5-Mar-21
10-Jun-21	13-Oct-21	5-Jan-22	17-Mar-22
21-Jun-22	12-Sep-22	12-Dec-22	15-Mar-23
27-Jun-23	6-Sep-23	12-Dec-23	4-Mar-24

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PROJECT

REMEDIAL INVESTIGATION REPORT
RESERVE SILICA RECLAMATION SITE

TITLE

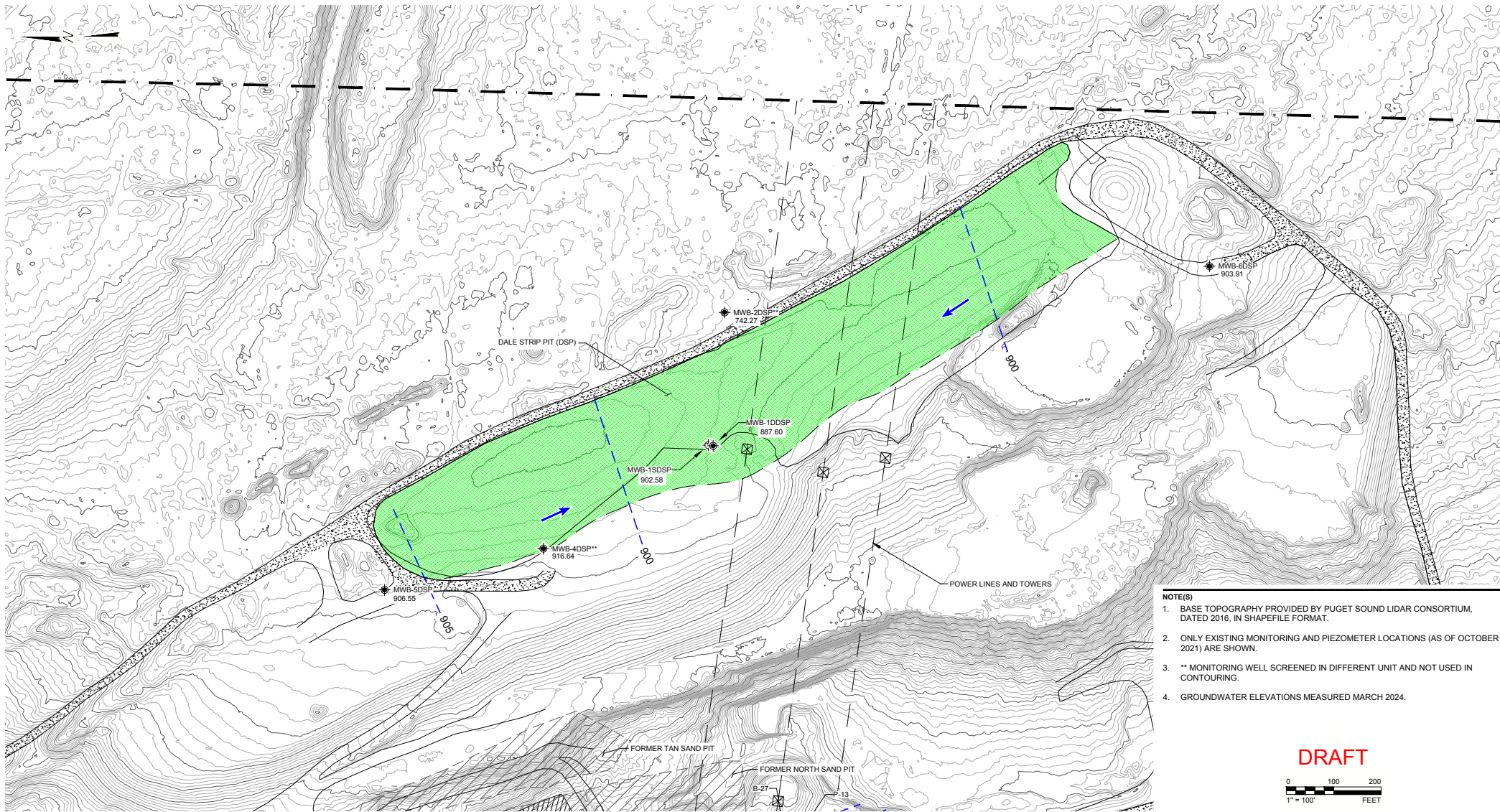
DSP HISTORICAL BEDROCK GROUNDWATER ELEVATIONS

PROJECT NO.
GL152030402.001

PHASE
04

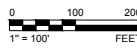
REV.
A

FIGURE
6-4



- NOTE(S)**
1. BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.
 2. ONLY EXISTING MONITORING AND PIEZOMETER LOCATIONS (AS OF OCTOBER 2021) ARE SHOWN.
 3. ** MONITORING WELL SCREENED IN DIFFERENT UNIT AND NOT USED IN CONTOURING.
 4. GROUNDWATER ELEVATIONS MEASURED MARCH 2024.

DRAFT



LEGEND	
	COVER AREA
	ALLUVIAL/SALLOW MONITORING WELL
	BEDROCK MONITORING WELL
	LDA MONITORING WELL
	PLANT SITE MONITORING WELLS
	PRE-RI PIEZOMETER
	LDA SURFACE WATER SAMPLING LOCATION
	DSP BEDROCK SAMPLING LOCATION (PORTAL)
	INTERCEPTOR TRENCH SAMPLING LOCATION
	FENCE LINE
	INFERRED GROUNDWATER SURFACE
	CONCEPTUAL GROUNDWATER FLOW DIRECTION
	ACCESS ROAD

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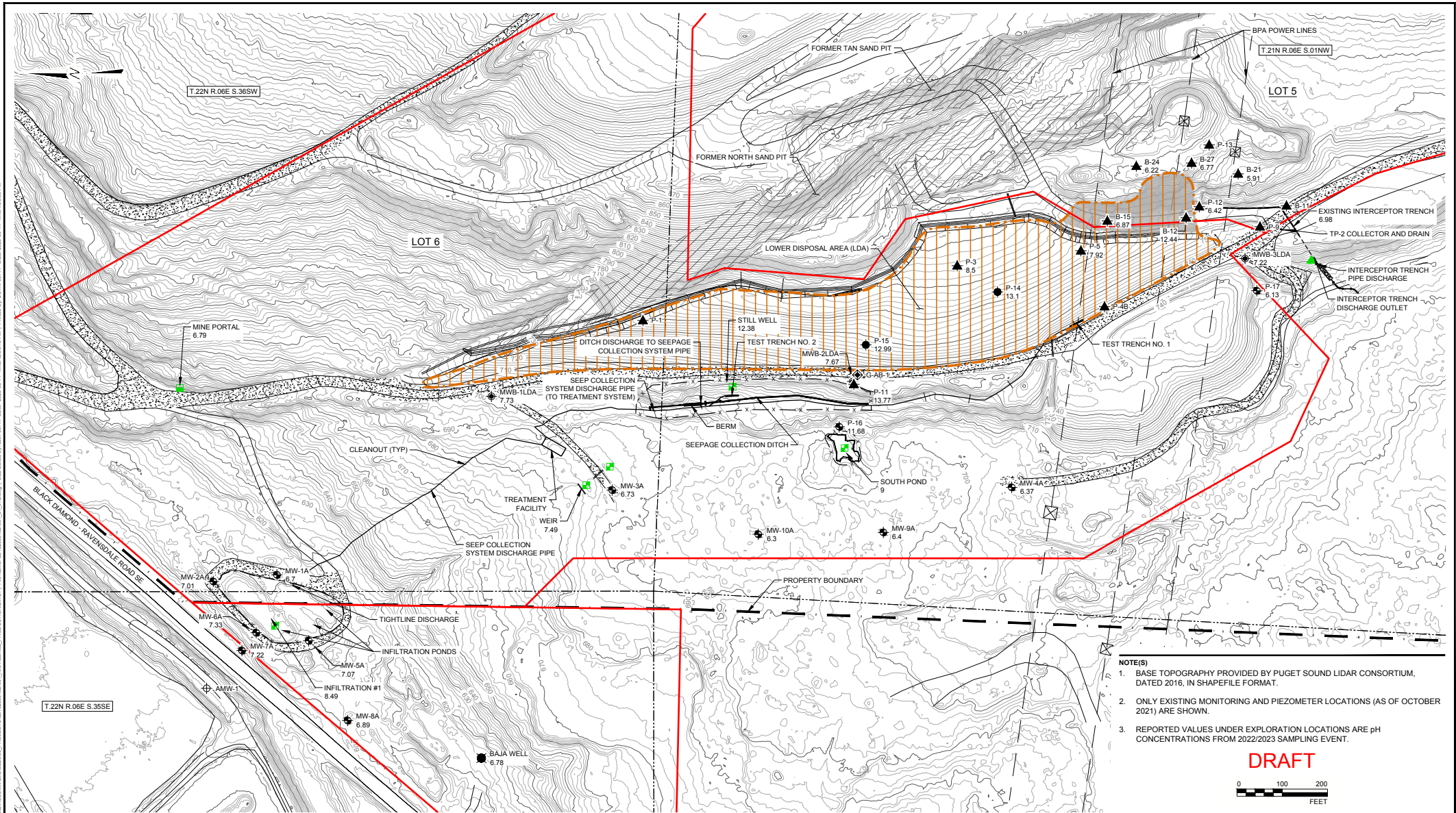
YYYY-MM-DD	2025-03-10
DESIGNED	GL
PREPARED	TR
REVIEWED	GL
APPROVED	GZ

PROJECT
**REMEDIAL INVESTIGATION REPORT
RESERVE SILICA RECLAMATION SITE**

TITLE
CONCEPTUAL DSP BEDROCK GROUNDWATER ELEVATIONS
















PROJECT NO.	TASK	REV.	FIGURE
GL152030402.001 04		A	6-5

FILE: \\P:\JAN\152030402\152030402_001_04_001.dwg | PLOT NAME: GL152030402.001_04_001.dwg | LWF: 2025-03-10 | TIME: 2:28:14 PM | PLOTTED BY: JST/10/2024 | DATE: 2025-03-10 | PLOT: 2/20/2024



NOTE(S)
1. BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.
2. ONLY EXISTING MONITORING AND PIEZOMETER LOCATIONS (AS OF OCTOBER 2021) ARE SHOWN.
3. REPORTED VALUES UNDER EXPLORATION LOCATIONS ARE pH CONCENTRATIONS FROM 2022/2023 SAMPLING EVENT.

DRAFT
0 100 200
FEET

LEGEND							
	G-AB-1	RI SOIL BORING		P-1	PRE-RI PIEZOMETER		FENCE LINE
	MW-1A	ALLUVIAL/SALLOW MONITORING WELL		BAJA WELL	PRIVATE WELL		TOWNSHIP, RANGE, SECTION, AND QUARTER BOUNDARIES
	MWB-1DDSP	BEDROCK MONITORING WELL			LDA SURFACE WATER SAMPLING LOCATION		PARCELS WITHIN PRELIMINARY SITE BOUNDARY
	P-14	LDA MONITORING WELL			DSP BEDROCK SAMPLING LOCATION (PORTAL)		LOWER DISPOSAL AREA BOUNDARY
	AMW-1	PLANT SITE MONITORING WELLS			INTERCEPTOR TRENCH SAMPLING LOCATION		IDENTIFIED LOBE OF BURIED CKD

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HOLCIM

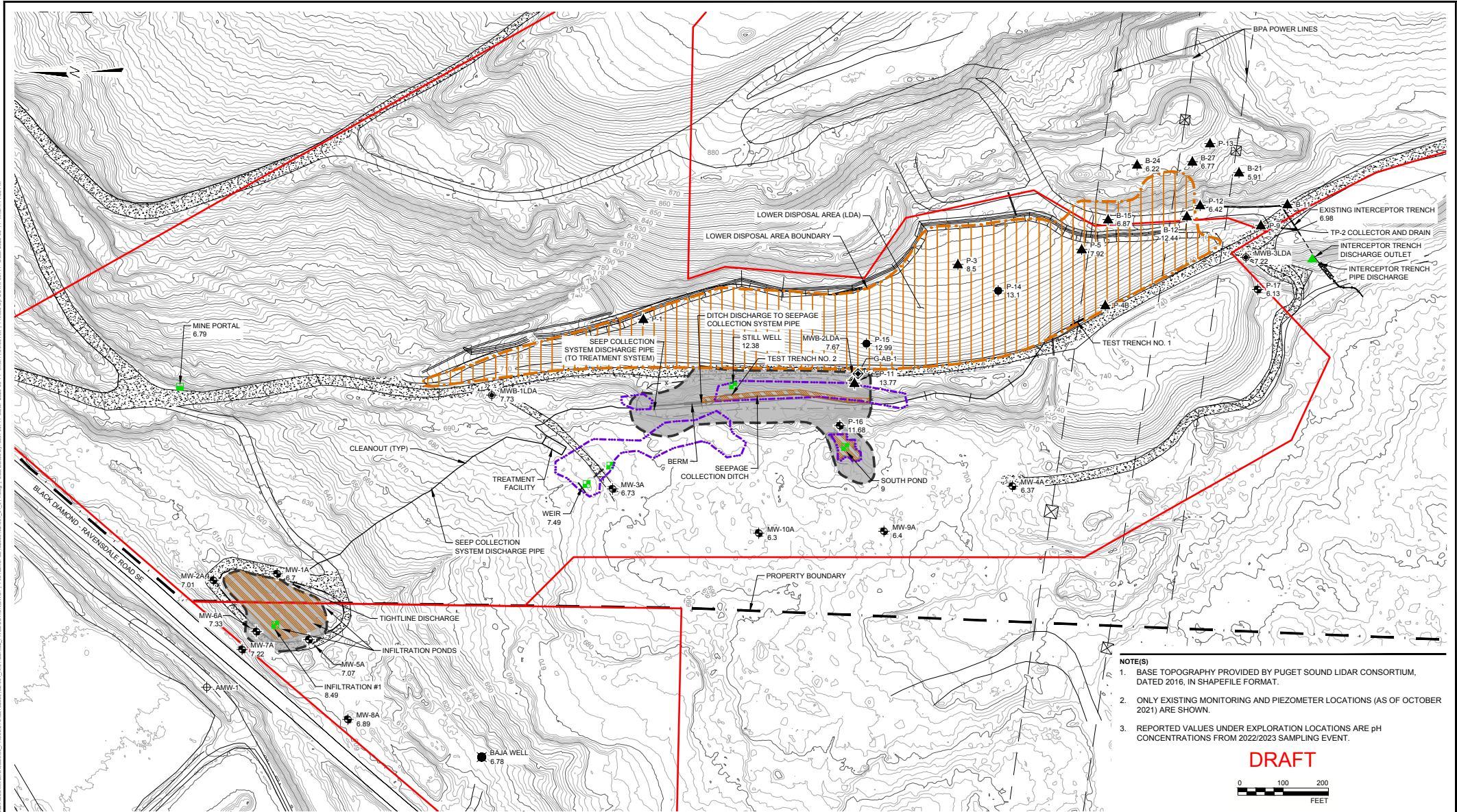
CONSULTANT

YYYY-MM-DD	2025-03-10
DESIGNED	GL
PREPARED	TR
REVIEWED	GL
APPROVED	GZ

PROJECT
**REMEDIAL INVESTIGATION REPORT
RESERVE SILICA RECLAMATION SITE**

TITLE
LDA LIMITED PURPOSE LANDFILL BOUNDARY

PROJECT NO.	TASK	REV.	FIGURE
GL152030402.001 04		A	7-1



LEGEND

- G-AB-1
- MW-1A
- MWB-1LDA
- P-14
- AMW-1
- RI SOIL BORING
- ALLUVIAL/SALLOW MONITORING WELL WITH GROUNDWATER PH LEVEL
- BEDROCK MONITORING WELL WITH GROUNDWATER PH LEVEL
- LDA MONITORING WELL WITH GROUNDWATER PH LEVEL
- PLANT SITE MONITORING WELLS
- P-15
- BAJA WELL
- PRE-RI PIEZOMETER WITH GROUNDWATER PH LEVEL
- PRIVATE WELL WITH GROUNDWATER PH LEVEL
- LDA SURFACE WATER SAMPLING LOCATION
- DSP BEDROCK SAMPLING LOCATION (PORTAL)
- INTERCEPTOR TRENCH SAMPLING LOCATION
- PARCEL BOUNDARIES
- LOWER DISPOSAL AREA BOUNDARY
- EXTENT OF GROUNDWATER CONTAMINATION
- EXTENT OF SOIL CONTAMINATION
- EXTENT OF SURFACE WATER AND SEDIMENT CONTAMINATION

NOTE(S)

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DRAFT
0 100 200
FEET

CLIENT
HOLCIM

CONSULTANT
wsp

YYYY-MM-DD	2025-03-10
DESIGNED	GL
PREPARED	TR
REVIEWED	GL
APPROVED	GZ

PROJECT
REMEDIAL INVESTIGATION REPORT
RESERVE SILICA RECLAMATION SITE

TITLE
LDA BOUNDARY AND EXTENT OF CONTAMINATION IN
GROUNDWATER, SOIL, AND SURFACE WATER AND SEDIMENT

PROJECT NO.	TASK	REV.	FIGURE
GL152030402.001 04		A	7-3

